

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

Please cancel claims 26 and 32 without prejudice.

**Listing of Claims:**

1. (Original) A *Lactobacillus fermentum* variant having the following characteristics:
  - (a) it is a Gram positive, facultative rod,
  - (b) it ferments ribose, galactose, glucose, fructose, mannose, maltose, lactose, melibiose, sucrose, trehalose, raffinose, L-arabinose and mannitol,
  - (c) it survives at pH 1.5 for up to 4 hours with a loss in growth of no more than log 3,
  - (d) it propagates in the presence of 0.5% bile salts at 37 C resulting in an increase in optical density of 0.5 to 0.8,
  - (e) it is stable when stored in, gelatin capsules at 25 C,
  - (f) it adheres to Peyer's Patches at greater than log 5 cfu per mg tissue inhibiting pathogens both by a direct antagonistic effect and by triggering an immune modulation;or a component thereof.
2. (Original) A *Lactobacillus fermentum* variant according to claim 1, wherein said variant is VRI 003 (accession no. NM02/31074).
3. (Original) A component of a *Lactobacillus fermentum* variant according to claim 1, wherein said component is a cell fragment, extract, secretion or purified component.
4. (Currently amended) A composition comprising a *Lactobacillus fermentum* variant according to claim 1 ~~or 2, or a component of a *Lactobacillus fermentum* variant according to claim 1 or 3~~ and a pharmaceutically acceptable carrier.

5. (Original) A composition according to claim 4, further comprising a prebiotic, a nondigestible dietary component, dietary fibre or a pharmaceutically active compound.
6. (Original) A composition according to claim 5, wherein the prebiotic is inulin, a resistant starch, an oligosaccharide, a gum or a beta-glucan.
7. (Original) A composition according to claim 6, wherein said prebiotic is unmodified high amylose starch or beta-glucan.
8. (Currently amended) A composition according to ~~any one of claims~~ claim 4 to 7, wherein said composition comprises live cells of the *Lactobacillus fermentum* variant.
9. (Currently amended) A composition according to ~~any one of claims~~ claim 4 to 7, wherein said composition comprises dead cells of the *Lactobacillus fermentum* variant.
10. (Currently amended) A composition according to ~~any one of claims~~ claim 4 to 9, in the form of a tablet, capsule, powder, paste, gel, liquid formulation, dietary supplement or food product.
11. (Original) A composition according to claim 10, wherein said composition is in the form of a tablet.
12. (Original) A composition according to claim 10, wherein said composition is in the form of a food product.
13. (Original) A composition according to claim 12, wherein said food product is a dairy or dairy-based food product.
14. (Original) A composition according to claim 10, wherein said composition is in the form of a liquid formulation.
15. (Original) A composition according to claim 10, wherein said composition is in the form of a dietary supplement.

16. (Currently amended) A method for preventing and/or treating a gastrointestinal disorder or symptoms thereof, comprising the step of administering a *Lactobacillus fermentum* variant according to claim 1 ~~or 2, a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.
17. (Original) A method according to claim 16, wherein said composition is administered orally.
18. (Currently amended) A method according to claim 16 ~~or 17,~~ wherein said gastrointestinal disorder is irritable bowel syndrome, inflammatory bowel disease, diarrhoea, bloating, flatulence, abdominal cramping, abdominal pain, constipation or Crohn's disease.
19. (Currently amended) A method according to ~~any one of claims~~ claim 16 ~~to 18,~~ wherein said gastrointestinal disorder is caused by a pathogen.
20. (Original) A method according to claim 19, wherein said gastrointestinal disorder is caused by a bacterium, virus or protozoa.
21. (Original) A method according to claim 20, wherein said bacterium is *Salmonella*, *Escherichia coli*, *Helicobacter*, *Vibrio* or *Pseudomonas*.
22. (Original) A method according to claim 20, wherein said virus is a Norwalks or rotavirus.
23. (Original) A method according to claim 20, wherein said protozoa is *Cryptosporidium*, *Entamoeba*, *Giardia* or *Dientamoeba*.
24. (Currently amended) A method for preventing and/or treating a disorder of a mucosal surface and/or symptoms thereof, comprising the step of administering an effective amount of a *Lactobacillus fermentum* variant according to claim 1 ~~to 2, a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.

25. (Original) A method according to claim 24, wherein said disorder is eczema, atopic dermatitis or rosacea.
26. (Canceled)
27. (Currently amended) A method of stimulating IL-12 production in a subject, comprising the step of administering a *Lactobacillus fermentum* variant according to claim 1 to 2, ~~a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.
28. (Currently amended) A method of up-regulating IFN- $\gamma$  comprising the step of administering a *Lactobacillus fermentum* variant according to claim 1 to 2, ~~a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.
29. (Currently amended) A method of inducing a Th 1-type response in a subject, comprising the step of administering a *Lactobacillus fermentum* variant according to claim 1 to 2, ~~a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.
30. (Currently amended) A method of inhibiting the growth of a pathogen, comprising the step of administering a *Lactobacillus fermentum* variant according to claim 1 to 2, ~~a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.
31. (Currently amended) A method of modulating indigenous microbes of the gastrointestinal tract, comprising the step of administering a *Lactobacillus fermentum* variant according to claim 1 to 2, ~~a component of a *Lactobacillus fermentum* variant according to claim 1 or 3, or a composition according to any one of claims 4 to 15,~~ to a subject in need of such treatment.

32. (Canceled)
33. (New) A composition comprising a component of a *Lactobacillus fermentum* variant according to claim 3 and a pharmaceutically acceptable carrier.